Scenario Worksheet

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Information Type	Data						
Region	Delta States						
State	Louisiana						
Discipline Group	Engineering General						
Practice Code/Name	351 - Water Well Decommissioning						
Scenario ID	1						
Scenario Name	Shallow Well less than 20 ft deep						
	A licensed well driller will seal and perr	nanently close an inactive, abandoned, or unusable water well to prevent excess nutrients in surface and groundwater and to					
	eliminate pesticides transported to surface and ground water. Well will be cleared of all equipment and materials. Residual water column must be treated with						
Scenario Description	chlorine concentration of >50 ppm or	according to local, State, Tribal, or Federal regulations.					
	Shallow well or hand dug well that is le	ess than 20 feet deep. Assume 30" diameter casing. Well will be cleared of all equipment and materials. Residual water colun					
Before Practice Situation	must be treated with chlorine concentration of >50 ppm or according to local, State, Tribal, or Federal regulations.						
	· ·	conform to ASTM D5299 and be compatible with all local, State, Tribal, and Federal requirements. Backfill shall be placed an					
After Practice Situation	compacted in a manner that minimizes	s segregation and bulking to prevent surface subsidence. Associated practices: 342 Critical Area Seeding					
Scenario Feature Measure	Length of well casing						
Scenario Unit	Linear Foot						
Scenario Typical Size	15						

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit		
Materials	\$180.90	\$12.06		
Equipment/Installation	\$65.29	\$4.35		
Labor	\$53.64	\$3.58		
Mobilization	\$133.51	\$8.90		
Acquisition of Technical Knowledge	\$0.00	\$0.00		
Foregone Income	\$0.00	\$0.00		
Total	\$433.34	\$28.89		

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
			Cement grout meeting ASTM specifications				
			for well sealing. Includes both neat-cement				
			grout and bentonite gout mixtures. Includes				
Materials	1333	Grout, cement	materials, equipment and labor to place.	Cubic Yard	\$66.14	2.7	\$178.58
Materials	1335	Chlorine	Liquid chlorine bleach. Materials only.	Gallon	\$2.32	1	\$2.32
			Grout pump with tremie pipe. Equipment and				
Equipment/Installation	1334	Grout pump	power unit costs. Labor not included.	Hour	\$12.82	1	\$12.82
			Earthfill, manually compacted, includes				
Equipment/Installation	50	Earthfill, Manually Compacted	equipment and labor	Cubic yard	\$4.44	2.7	\$11.99
			Wheel mounted backhoe excavator with				
			horsepower range of 60 to 90. Equipment and				
Equipment/Installation	926	Backhoe, 80 HP	power unit costs. Labor not included.	Hour	\$40.48	1	\$40.48
			Labor requiring a high level skill set: Includes				
			carpenters, welders, electricians,				
			conservation professionals involved with data				
			collection, monitoring, and or record keeping,				
Labor	230	Skilled Labor		Hour	\$26.82	2	\$53.64
			Equipment with 70-150 HP or typical weights				
Mobilization	1139	Mobilization, medium equipment		Each	\$133.51	1	\$133.51

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